

**EXHIBIT 1 TO DEFENDANTS'  
MOTION *IN LIMINE* TO PROHIBIT PLAINTIFFS  
FROM OFFERING EXPERT TESTIMONY**

## CONVERGYS vs. IGATE CORPORATION, et al.

William P. Koopmans

February 12, 2004

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UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF OHIO  
WESTERN DIVISION

CONVERGYS INFORMATION :  
MANAGEMENT GROUP, INC., :  
AND CHUBB CUSTOM :  
INSURANCE COMPANY, :  
Plaintiffs :  
-v- : Case No. CV-01-618  
: (Judge Beckwith)  
IGATE CORPORATION, et al., :  
Defendants :  
- 0 -

The deposition of WILLIAM P. KOOPMANS, taken before Melea E. Chaney, Court Reporter and Notary Public in and for the State of Ohio, at the law offices of Ulmer & Berne, 600 Vine Street, Suite 2800, Cincinnati, Ohio, on the 12th day of February, 2004, beginning at the hour of 9:23 a.m. and ending at the hour of 6:09 p.m. of the same date.

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1 published in May was specific to Sprint.

2 Q Let me ask you: There's a term that I  
3 see repeatedly in the Convergys documents that's called  
4 the usage split or the usage split project. Is that  
5 what you're talking about here?

6 A Yes.

7 Q Sir, can you just briefly describe for  
8 me so I can use the same language that you use,  
9 generally what was the usage split project? What was  
10 its purpose?

11 A The purpose of the -- of the project  
12 was to take usage data associated with our usage --  
13 realtime usage processing and move that data to a  
14 second Oracle instance. The rationale at the time was  
15 primarily to assist us in our scalability of our P2K  
16 solution because Oracle at the time was constrained.  
17 An instance was constrained to run on a single machine.  
18 We viewed in the future that single machine bottleneck  
19 constraint would be a problem to our ability to support  
20 Sprint's meteoric growth.

21 So by moving some of the data into a  
22 second instance, we could move that second instance  
23 ultimately to a second server, have a different set of  
24 Oracle resources serving those data requests and  
25 improve our scalability.

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1 your cell phone, we refer to that event record as a  
2 call detail record. Who you called, when you initiated  
3 the call, when you hung up, where you were when you  
4 made the call, all of that information that the  
5 switches capture associated with that call.

6 Our solution, that call is routed  
7 through the Sprint PCS network and delivered to us to  
8 rate. We use that data and then, based on the customer  
9 data, we're able to associate that MIN, mobile  
10 identification number, to the customer, the subscriber,  
11 their address, their -- the price plans that they have  
12 for the purposes of rating that call. We refer to that  
13 as the usage record and that is the -- in general the  
14 usage data that we're collecting. The calls that were  
15 made for the subscriber, the tax information associated  
16 with that, what their current -- how many calls they've  
17 made and their accumulation of usage.

18 Q So this usage data or usage record is  
19 the subset that you were talking about before that was  
20 the subject of this usage split project?

21 A That's correct. Moving it away from  
22 customer information.

23 Q I just want to make sure I understand  
24 so I can use or at least try to use the same  
25 terminology you are. Once you take away that

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1 Q The usage data that you're talking  
2 about, at that point in time prior to September of  
3 1999, it was all being handled as part of the existing  
4 Oracle instance?

5 A That is correct.

6 Q And in order to be able to support more  
7 Sprint business and transactions, you wanted to split  
8 it in two basically so you would have two separate  
9 systems that could handle more volume; is that  
10 basically what you're telling me?

11 A I'm sorry. I'm technically precise.  
12 It really wasn't splitting it into two. It was taking  
13 a subset, a specific horizontal -- or vertical slice of  
14 data, I should say, and moving it into a second  
15 instance. So splitting the workload between two  
16 instances, but they were -- the instances were very  
17 different data. It wasn't the same data that we were  
18 splitting from a horizontal scalability perspective.

19 Q Let me ask you then: When you talk  
20 about the usage data, this is a subset of data that was  
21 then being generated, correct?

22 A That is correct.

23 Q What is usage data as opposed to all  
24 the other data?

25 A Usage data is if you make a call on

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1 particular subset of usage data, what do you call the  
2 remainder?

3 A The remainder is customer data, data.

4 Q And can you just briefly tell me what  
5 kind of data is included in the customer data?

6 A Sure. Customers, accounts,  
7 subscribers, price plans, account remark history, the  
8 specific services they have enabled. There's lots of  
9 other miscellaneous information, but in general it's  
10 information about the customer, their subscriptions and  
11 details about what types of services and plans they  
12 have.

13 Q So we have the two different types of  
14 data that we're talking about that was going to be part  
15 of this usage split project: You have the usage data  
16 and then you have the customer data, correct?

17 A Correct.

18 Q Now, let me see if I can tie in some  
19 terms, again, so I can try to use the ones that you  
20 want me to use when we're describing.

21 In the documents there's references to  
22 SSUP and SSP. So I would like to take them one at a  
23 time and ask you if you can describe what they are and  
24 if they relate to one of these two different breakdowns  
25 of data, if you would tell me that. So let's start

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1 first with SSP. What does that mean?

2 A SSP was our -- is our term or our name  
3 for the customer instance. An instance is an Oracle  
4 term for the actual database instance that contains the  
5 customer data. So it contains all of the tables,  
6 indexes and the data for -- for the customer instance.  
7 SSP is our reference for the customer instance.

8 Q And then what is SSUP?

9 A That's our instance name for the usage  
10 instance.

11 Q As we're going along this, let me just  
12 ask you a few questions that are not directly related,  
13 but the terminology is, so maybe it's easier.

14 There's also the reference in the  
15 documents to what I'll call the SSP alert log and the  
16 SSUP alert log. You're familiar with those terms, I  
17 take it?

18 A Yes.

19 Q Can you tell me what SSP alert log  
20 refers to?

21 A The alert log is Oracle's log of  
22 important events or activity that is occurring against  
23 the instance. So the SSP alert log is the alert log  
24 specific -- specifically for the SSP instance. So it  
25 will contain information like when the database was

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1 started, when it was shut down, when data files were  
2 added, when errors -- Oracle reported errors occurred  
3 on the instance.

4 Q And the SSUP alert log would be the  
5 same thing but with respect to the usage instance?

6 A That is correct.

7 Q While we're talking about terms, let me  
8 ask you a few other terms that I've seen in the  
9 Convergys documents. The DDM team, like David, David,  
10 Mary, what is the DDM team?

11 A DDM was another term similar to  
12 database and data resource management. I believe at  
13 the time it -- it was database and data management is  
14 what that stood for. I'm not 100 percent certain, but  
15 it was in general the development DBA team, another  
16 name for the development DBA team.

17 Q And not including the production DBA  
18 team?

19 A In function, that is a correct  
20 statement. Again, we had the situation where  
21 organizationally and from a manager perspective is one  
22 and how that team at large was referenced, folks may  
23 have referenced the entire team as DDM. But from a  
24 functional perspective, it's development.

25 Q So from a management point of view it

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1 could include both reporting to Mr. DeCarlo at least in  
2 this September of 1999 time frame; is that correct?

3 A That is correct. I'm -- I'm not sure  
4 folks referred to the team in -- from an administrative  
5 perspective with that name, but it could have been.

6 Q But the distinction you're making is  
7 from a function or activity perspective as opposed to a  
8 management perspective?

9 A That is correct.

10 Q Let me ask you about the open systems  
11 group. What was that in Convergys at or about  
12 September of '99?

13 A The open systems group are the Unix  
14 administrators who administrate or administer the  
15 physical servers. In our case they're SUN servers.  
16 They're in our data center organization and they have  
17 responsibility for care and feeding of the servers  
18 themselves, the physical operating environment as  
19 opposed to the application.

20 Q Let me see if I follow along with you.  
21 In the open systems group, that relates to the  
22 operating system which you are contrasting with the  
23 application system?

24 A That's correct.

25 Q So the operating system, at least with

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1 respect to what we're talking about so far in terms of  
2 servers, that would be the operating system and the SUN  
3 servers?

4 A And -- and the disk drives and how  
5 they're striped and configured and connected to the  
6 network. What I'd refer to as the computing  
7 environment or the operating environment.

8 Q And you had SUN servers. Who did you  
9 have as your disk or your storage hardware supplier?

10 A In 1999 we were 100 percent EMC.

11 Q Now, you mentioned Unix in this  
12 context.

13 A Yes.

14 Q What is the relevance of Unix in this  
15 context?

16 A Well, Unix is the general term for the  
17 operating system. We specifically on the SUN servers  
18 use Solaris.

19 Q And I realize there are many  
20 application systems, but the one we've been talking  
21 about, at least so far in your deposition, would be the  
22 Oracle application?

23 A Oracle is the database management  
24 product that we use as part of our P2K solution or  
25 application.

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1 Q Did you take any steps or anyone else  
 2 at your direction take steps to preserve anything else  
 3 at that time, such as keystroke logs, alert logs,  
 4 activities of the data recovery efforts, anything else  
 5 at all having to do with activities that Mr. Rao had  
 6 been engaged in prior to November 17th of 1999 or after  
 7 September 17th.

8 MR. SHANK: Hang on a second. I just  
 9 want to make it clear that there are other  
 10 witnesses who are also going to testify on this  
 11 topic as well. So I'm assuming that this  
 12 question is being asked of Mr. Koopmans in his  
 13 personal capacity and not in his corporate  
 14 capacity.

15 MR. LUCAS: I'm asking in both  
 16 capacities. If he's answering in one, only you  
 17 can control that, not me.

18 MR. SHANK: Well, the point is, is  
 19 there are other witnesses who can also testify  
 20 to this issue as well.

21 MR. LUCAS: You've conveyed that on the  
 22 record. So --

23 THE WITNESS: Up through the 20th we  
 24 recovered or stored away things like the  
 25 history file and we recovered the alert log.

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1 it ignores the fact that there has been a  
 2 history file produced recently in discovery by  
 3 Convergys.

4 MR. LUCAS: All I can do is ask this  
 5 witness. I mean, I haven't even seen these  
 6 documents. They were delivered here. We'll  
 7 take a look at them and then maybe you can  
 8 identify them.

BY MR. LUCAS:

10 Q This witness -- at least no active  
 11 steps were taken that you know of to preserve those  
 12 type of documents, correct?

13 A Other than the documents that we  
 14 preserved as part of the identifying of the root cause,  
 15 that is correct.

16 Q So only those specific documents that  
 17 you preserved in terms of a history file or portions of  
 18 a history file relating to Ragesh Rao, correct?

19 A Correct.

20 Q Relating to a alert log for a certain  
 21 time period, correct?

22 A Correct.

23 Q And no other history files of Mr. Rao  
 24 for his prior work at Convergys, including the work he  
 25 did in implementing the usage split in the Y2K, the UAT

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1 Following our analysis and conclusion, there  
 2 were no additional steps to -- to retrieve or  
 3 retain any additional electronic or  
 4 computerized logs with respect to the outage.

5 The data recovery continued in -- in  
 6 its entirety for three months and, as part of  
 7 that process, we retained documents about the  
 8 methods that we used to recover data. Most of  
 9 those were published in the postmortem to  
 10 Sprint so that in the event this ever occurred  
 11 again, we had those documents.

BY MR. LUCAS:

13 Q Let me take those one at a time, if I  
 14 can. The electronic documents which you called like  
 15 the history file and the alert logs, did you or  
 16 Convergys make any efforts to maintain and preserve the  
 17 keystroke logs, for example, of all other production  
 18 DBAs or development DBAs that were involved in the  
 19 Sprint project?

20 A No.

21 Q With respect to --

22 MR. SHANK: Hang on. Hang on. There  
 23 has been at least one of those documents  
 24 produced recently in discovery. So I'm going  
 25 to object to that question to the extent that

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1 or the pre-production environments, correct?

2 A That is correct. Those history files  
 3 are circular and recycle themselves.

4 Q When do they recycle?

5 A I think it's every 5000 lines. Darin  
 6 would probably know more precisely. I believe that's  
 7 correct.

8 Q Well, were any efforts made to go back  
 9 and retain other history files of Mr. Rao or to see if  
 10 they existed on any other tape or any other backup  
 11 system?

12 A No.

13 Q And you did not make the determination  
 14 of what was even going to be preserved, right; somebody  
 15 else did?

16 MR. SHANK: Objection.

17 MR. LUCAS: I'll rephrase the question.

BY MR. LUCAS:

19 Q Did you gather Mr. Rao's history file?

20 A Did I personally? No.

21 Q Who did?

22 A Darin.

23 Q Did you do anything to gather, preserve  
 24 alert logs for either the SSUP or SSP?

25 A Darin and I made sure the documents

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1 that were pertinent to our identification of root cause  
 2 were stored.

3 Q What was pertinent to your  
 4 identification, what you viewed as pertinent, correct?

5 A Correct.

6 Q So if other people thought other things  
 7 were pertinent and relevant, those were not preserved;  
 8 is that correct?

9 MR. SHANK: Objection to form.

10 THE WITNESS: I was not aware anybody  
 11 had any other opinion in terms of documents  
 12 that were pertinent.

13 BY MR. LUCAS:

14 Q Well, let me just see if I understand.  
 15 At the time, let's say the period between September  
 16th and September 23rd which is the latter part when  
 17 you would have completed your notes, did you have any  
 18 discussion with any of the defendants here, Mastech or  
 19 iGate, concerning these matters?

20 A In what time frame?

21 Q Between September the 17th and, say,  
 22 September the 23rd.

23 A I had many discussions with Ragesh.

24 Q Other than Mr. Rao, did you have any  
 25 discussions with anyone from Mastech or iGate?

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1 A I did not, to the best of my knowledge.  
 2 Q Did anyone from Convergys have any  
 3 discussions during that time period, for example, with  
 4 Mr. Rao's then employer?

5 MR. SHANK: Objection to foundation.  
 6 You can answer to the extent you know, Mr.  
 7 Koopmans.

8 THE WITNESS: I don't have any idea if  
 9 HR or legal --

10 BY MR. LUCAS:

11 Q Did Sprint instruct Convergys or you  
 12 what documents it wanted to see?

13 A Not that I recall.

14 Q In fact, the process worked just the  
 15 opposite, you gathered and Convergys gathered  
 16 information, you did your analysis and then you  
 17 presented your results or your conclusions to Sprint,  
 18 correct?

19 A Correct. The burden of proof is on us  
 20 to explain to them what happened with our system.

21 Q So what Sprint might have viewed as  
 22 relevant at the time was not something that was  
 23 inquired into by you or Convergys when you were  
 24 deciding what documents or electronic media to  
 25 preserve, correct?

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1 MR. SHANK: Objection to form and  
 2 foundation.

3 THE WITNESS: Historically if Sprint is  
 4 interested in something, they tell us.

5 BY MR. LUCAS:

6 Q But in this case Convergys didn't  
 7 confer with them to ask, correct?

8 MR. SHANK: Objection to foundation.

9 THE WITNESS: We had lots of dialogue  
 10 on this outage and what we were doing and --  
 11 and how we were doing it.

12 BY MR. LUCAS:

13 Q Mr. Koopmans, I just want to go to your  
 14 answer. You said you preserved everything that anyone  
 15 thought was relevant. And I just want to understand  
 16 that the only people who made the determination that  
 17 what was relevant was Convergys.

18 MR. SHANK: I think he's already  
 19 answered your question a couple times.

20 MR. LUCAS: Well, no, let him answer  
 21 the question.

22 BY MR. LUCAS:

23 Q Did Sprint ever have any discussion  
 24 with you during this time period as to what documents  
 25 should be preserved as relevant?

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1 A Did they specify anything they thought  
 2 was relevant? No.

3 Q And the same thing would be true with  
 4 respect to Sun Microsystems, correct?

5 A Correct.

6 Q And the same thing would be true with  
 7 respect to Oracle, correct?

8 A Darin could answer that. Oracle  
 9 frequently asks for specific database logs when we open  
 10 a TAR. So if we go back to the TAR history, they might  
 11 have asked for logs or documents to transmit to -- to  
 12 their site for analysis.

13 Q TAR is a technical assistance request  
 14 to Oracle?

15 A That is correct.

16 Q And you just don't know the answer to  
 17 that question?

18 A Correct. I presume the answer is stuff  
 19 was sent to Oracle.

20 Q Now, you indicated that efforts in the  
 21 recovery were summarized as part of your postmortem,  
 22 correct?

23 A Correct.

24 Q But the underlying documents that would  
 25 show what it is that Convergys actually did in its

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February 17, 2004

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UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF OHIO  
WESTERN DIVISION

CONVERGYS INFORMATION :  
MANAGEMENT GROUP, INC., :  
AND CHUBB CUSTOM :  
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: (Judge Beckwith)  
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The deposition of WILLIAM P. KOOPMANS, continued in progress, taken before Melea E. Chaney, Court Reporter and Notary Public in and for the State of Ohio, at the law offices of Ulmer & Berne, 600 Vine Street, Suite 2800, Cincinnati, Ohio, on the 17th day of February, 2004, beginning at the hour of 9:23 a.m., adjourning at 10:57 a.m., resuming at 3:49 p.m. and ending at the hour of 6:09 p.m. of the same date.

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William P. Koopmans

February 17, 2004

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1 So there is no typical means of creating the file name?  
 2 A Well, that's a misleading question, I  
 3 think. The -- the time stamp on the file is what you  
 4 typically use to identify when the file was last  
 5 accessed. What -- all Darin has done in this copy,  
 6 when he made the copy of this file, is pulled at least  
 7 the date of that time stamp and put it on the -- the  
 8 file name. The file name in and of itself is  
 9 meaningless.

10 Q Now, I take it from your testimony you  
 11 don't know whether that's, in fact, what Mr. Darin  
 12 Brown did? This is a presumption you're making; is  
 13 that correct?

14 A Correct. That's speculation, but it's  
 15 common practice.

16 Q Now, is there any way to tell from the  
 17 records of Convergys when Mr. Rao's keystroke log was  
 18 accessed at any point in time, even if that access is  
 19 just a review of his keystroke log?

20 A If your question is: Can we tell, for  
 21 example, on a -- on a file, we'll -- we'll just make up  
 22 a date. On a -- on a file that's dated October 1st and  
 23 the last entry was 11 -- or the file's time stamp is  
 24 11:00, if your question is, can I tell typically when  
 25 it was accessed at any time for that point in time, the

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1 MR. SHANK: Objection to foundation.

2 THE WITNESS: The -- again, the file,  
 3 the details with the file would identify its  
 4 update, date and time.

5 BY MR. LUCAS:

6 Q Where, though? Where would I find  
 7 that?

8 A That's an LS in the directory where it  
 9 resides, a directory listing.

10 Q Well, how would one access on Exhibit 7  
 11 or with respect to Exhibit 7 the LS directory to find  
 12 out when it was last edited?

13 A That's a better question for Darin or  
 14 somebody on the tech team.

15 Q What else does the LS directory show  
 16 with respect to any edits?

17 A I'm not an OS detail.

18 Q Exhibit Number 7, is there a server  
 19 that this comes from?

20 A That's probably a better question for a  
 21 DBA.

22 Q Can you tell me whether the server is  
 23 the same or different from which Exhibit Number 7 and  
 24 Exhibit Number 13 were obtained?

25 A In 1999 they would have been generated

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1 answer is generally no.

2 Q What about after that point in time?

3 A Well, after that point in time, the  
 4 system, again, will time stamp the file if it's  
 5 accessed after that.

6 Q Well, for example, Exhibit Number 7, we  
 7 know it was accessed just a couple of months ago and  
 8 yet --

9 A Edited, changed.

10 Q Well, let me ask you -- let's take it  
 11 one step at a time. So if there's a keystroke log or  
 12 shell history that is reviewed or accessed by someone  
 13 after the time of its last entry, are there any records  
 14 in Convergys which reflects that access or review of  
 15 the keystroke log?

16 A A -- a read-only access is not  
 17 identified.

18 Q So, take, for example, Exhibit Number  
 19 7. If this had been looked at ten times by Convergys  
 20 representatives since, say, September the 20th of 1999,  
 21 there's no record that reflects that; is that correct?

22 A That's correct.

23 Q And if it had been edited after 9/20/99  
 24 in any sense, what would the record be that would  
 25 reflect the time of the edit?

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1 and stored on the same server. That server has since  
 2 been replaced.

3 Q I take it on the --

4 MR. SHANK: Kevin, hang on one second.  
 5 Did you want to clarify that?

6 THE WITNESS: I'm -- I'm just sitting  
 7 here thinking. At the time we had a 10K. We  
 8 went to two 10Ks. We still have one 10K, so I  
 9 -- I would have to go back and -- but it's  
 10 irrelevant. The -- it's -- it's in the file  
 11 systems for the database server where it's  
 12 stored. But I shouldn't have embellished on  
 13 the -- on the server. It was stored on the  
 14 10K, it's still in the file system attached to  
 15 our database server.

16 BY MR. LUCAS:

17 Q If I understand your testimony both  
 18 today and last week correctly, Exhibit 13 no longer  
 19 exists on the system? If one goes to the system right  
 20 now, the current production system as you call it, what  
 21 one would find is Exhibit Number 7; is that correct?

22 A In the normal location for keystroke  
 23 histories, that is correct.

24 Q Well, is there some other location  
 25 where Exhibit 7 would be found?

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CONVERGYS INFORMATION MGMT. GROUP, INC., et al. vs. IGATE CORP., et al.  
DARIN BROWN  
2/13/04

SHEET 1 PAGE 1

UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF OHIO  
WESTERN DIVISION

CONVERGYS INFORMATION :  
MANAGEMENT GROUP, INC. and :  
CHUBB CUSTOM INSURANCE :  
COMPANY, :  
Plaintiffs :  
-v- : Case No. CV-01-618  
: (Judge Beckwith/Magistrate  
: Judge Sherman)  
IGATE CORPORATION, et al., :  
Defendants :  
- 0 -

The deposition of DARIN BROWN, taken before  
Susan K. Lee, CVR-CM, Court Reporter and Notary Public  
in and for the State of Ohio, at the law offices of  
Ulmer & Berne LLP, 600 Vine Street, Suite 2800,  
Cincinnati, Ohio, on the 13th day of February, 2004,  
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 DARIN BROWN  
 2/13/04

SHEET 5 PAGE 14	14	PAGE 16	16
1 log were missing.		1 Q So when you use a VI editor, that	
2 Q At the time that you made the request		2 doesn't mean you're actually making any changes. You	
3 did you have a -- you say usage database alert log. Is		3 may simply be reading only what the material is; is	
4 that the SSUP alert log?		4 that correct?	
5 A Yes.		5 A That is correct.	
6 Q Did you have some version of that		6 Q Do you have records -- you meaning	
7 document at the time you made the restore request?		7 Convergys -- of what you did back on, in this case,	
8 A Yes.		8 September 17th of 1999 to look at electronic data,	
9 Q What was the nature of the document you		9 including to getting access to the SSUP alert log, as	
10 had? Did you have a hard copy document or did you just		10 you've just testified to?	
11 have electronic access?		11 A I apologize. I don't think I	
12 A To the best of my recollection, it		12 understand the question.	
13 would have been only on magnetic disk, so electronic.		13 Q If at any time today -- because it will	
14 Q When did you first review that		14 happen, I assure you. It happened in yesterday's	
15 document?		15 deposition. If at any time today you don't understand	
16 A Which document?		16 my question, do just what you did; I mean, ask me and I	
17 Q Well, the document that existed on the		17 will do the best I can to rephrase it for you. And if	
18 magnetic disk apparently as of September 19th of '99		18 you need to rephrase an answer to clarify, please feel	
19 just prior to your making your restore request.		19 free to do that.	
20 A And can you define what you mean by		20 Let me give you an example. There have	
21 review?		21 been documents produced in this case called at various	
22 Q Look at.		22 points different things but keystroke logs, Rao history	
23 A The -- I don't know precisely.		23 logs, things of that nature. Are you generally	
24 Q Let me see if I can use some		24 familiar with those documents?	
25 approximate time frames based upon the deposition of		25 A Yes.	
PAGE 15	15	PAGE 17	17
1 Mr. Koopmans, and Mr. Shank can correct me or caution		1 Q What would you call that? Would you	
2 you if he thinks it's appropriate.		2 call that a keystroke log?	
3 But the testimony yesterday, using		3 A The technical term for it is the shell	
4 approximate times, was the database corruption incident		4 history.	
5 took place somewhere around 10:30 in the morning on		5 Q Does Convergys have the shell history	
6 Friday, September the 17th. Is that generally		6 for your activities between September 16th, 1999, let's	
7 consistent with your recollection?		7 say, through September 23rd, 1999?	
8 A That is.		8 A No.	
9 Q Using that as a time reference, when is		9 Q Why not?	
10 the first time after that that you looked at an alert		10 MR. SHANK: Objection to foundation.	
11 log for the usage instance?		11 If you understand the question, you can answer	
12 A It would have been within one hour of		12 his question, if you're able to.	
13 that occurrence.		13 THE WITNESS: Shell history is	
14 Q And can you describe for me how you		14 generally maintained only for some certain	
15 went about doing that?		15 limited number of commands, the most recent	
16 A I logged onto the system. I went to		16 commands that have been executed.	
17 the directory where Oracle stores the alert log and		17 BY MR. LUCAS:	
18 used a tool to look at the alert log, either -- most		18 Q And do I correctly understand that	
19 likely used the VI tool to look at the alert log.		19 neither you nor Convergys made any effort to preserve	
20 Q And when you say the VI tool, is that		20 your shell history for this approximately time frame in	
21 also referred to as the VI editor?		21 mid-September of 1999?	
22 A Yes, it is.		22 MR. SHANK: Objection. Lack of	
23 Q And do you frequently use the VI editor		23 foundation. Go ahead, Mr. Brown.	
24 simply to look at or peruse electronic documents?		24 THE WITNESS: To the best of my	
25 A Yes.		25 knowledge, that is correct.	

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18

1 BY MR. LUCAS:

2 Q You did, however, or Convergys did make  
 3 arrangements to preserve certain of the shell history  
 4 for Mr. Rao during that time frame; is that correct?

5 A That is correct.

6 Q Your attorney, or Mr. Shank, produced,  
 7 I believe, yesterday or the day before what appears to  
 8 be a shell history for Mr. Walters, Mr. Eric Walters.  
 9 Are you aware of that document?

10 A I am aware of that document.

11 Q Who made arrangements at the time for  
 12 the preservation of Mr. Walters' shell history during  
 13 this time period in approximately mid-September of  
 14 1999?

15 A Mr. Walters did.

16 Q Was anyone else's shell history  
 17 preserved from the mid-September 1999 time frame?

18 A Not to my knowledge.

19 Q For example, was Mr. Ravi Kura's, Mr.  
 20 Neil Hulin's or any of the other production or  
 21 development DBAs' shell histories for this time period  
 22 preserved?

23 A Not to my knowledge.

24 Q When you accessed the SSUP alert code  
 25 on September 17th an hour or so, based on your

PAGE 20

20

1 Q And did it include entries up to the  
 2 time that you were actually looking at it?

3 MR. SHANK: Objection. He already  
 4 asked and answered that question. Go ahead,  
 5 Mr. Brown.

6 THE WITNESS: Yes, it did.

7 BY MR. LUCAS:

8 Q And do I correctly understand your  
 9 testimony that you didn't make any sort of a hard copy  
 10 or anything of that particular document?

11 A Not at that time, correct.

12 Q Are there any notes or any other  
 13 records that reflected what the contents of that  
 14 document were at the time?

15 A I believe there are e-mails that have  
 16 been produced in this case that contain notes regarding  
 17 what that document reflected.

18 Q Did you discuss that particular  
 19 document as it existed at the time you first looked at  
 20 it with anyone else?

21 A Yes.

22 Q When did you do that?

23 A It would have been on September 17th.

24 Q And with whom did you do that?

25 A Mr. Koopmans, Mr. Hulin. That's --

PAGE 19

19

1 recollection, after you learned of the database  
 2 corruption incident, what did that document reflect?

3 MR. SHANK: Objection to form.

4 THE WITNESS: It showed data files in  
 5 the SSUP database that were pointing to data  
 6 files in the SSP database.

7 BY MR. LUCAS:

8 Q Now, this is an alert log, so this  
 9 would have time stamps or time entries; is that  
 10 correct?

11 A Correct.

12 Q As opposed to the shell histories that  
 13 you're referring to that don't have time stamps; is  
 14 that correct?

15 A That is correct.

16 Q When is the latest in time time stamp  
 17 on the SSUP alert log as you looked at it for the first  
 18 time on September 17th after the database corruption  
 19 event?

20 A I can't say precisely.

21 Q Was it up to date?

22 A Yes, it was.

23 Q So it at least included entries as of  
 24 September 17th, 1999?

25 A Yes, it did.

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21

1 they're the only two people that I can say for sure  
 2 that I had discussed it with.

3 Q Did you discuss it with them together  
 4 or separately?

5 A I -- I know that I discussed it with  
 6 them separately.

7 Q What did you discuss with Mr. Koopmans,  
 8 as you recall it?

9 A Simply the contents.

10 Q Anything in particular about the  
 11 contents that you discussed with Mr. Koopmans?

12 A The fact that the data files associated  
 13 with the SSUP database had overwritten the data files  
 14 associated with the SSP database.

15 Q What did you discuss with Mr. Hulin?

16 A Same topic.

17 Q Did you look at the SSUP alert log on  
 18 any other occasion on September the 17th after the  
 19 first occasion that you just described to me?

20 A Yes, I did.

21 Q How many times?

22 A To my recollection, I only remember one  
 23 specific time.

24 Q And can you tell me when that was?

25 A That would have been in the afternoon,

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1 probably in the 3:00 to 4:00 time frame. 22  
 2 Q And what were the circumstances of your  
 3 doing so at that time?  
 4 A We were discussing with Mr. Rao the  
 5 contents of the same.  
 6 Q And when you say we, who was that?  
 7 A Mr. Koopmans.  
 8 Q Were you with Mr. Rao at the time you  
 9 looked at this particular document or was it separate  
 10 from when you were actually in the presence of Mr. Rao?  
 11 A It was with Mr. Rao.  
 12 Q Now, is there any record, copy or any  
 13 other indication of what the contents were of the alert  
 14 log, SSUP alert log, at that time?  
 15 A Not to my knowledge.  
 16 Q Is there any record that indicates the  
 17 time of day when you so looked at the SSUP alert log  
 18 for the second time on September 17th?  
 19 A There's documents produced in this case  
 20 that discuss the time of day.  
 21 Q But is there any document that actually  
 22 records so we could tell based upon a contemporaneous  
 23 record as to when this event took place?  
 24 MR. SHANK: Objection to form and to  
 25 the extent he's already answered this question.

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1 A Log file entries from the operation or 24  
 2 the usage database.  
 3 Q And what time frame did those log file  
 4 entries go through?  
 5 A The point in time that we were looking  
 6 at the log file.  
 7 Q Was there any difference in the content  
 8 of the SSUP alert file as you were looking at it on the  
 9 second occasion on September 17th compared to what you  
 10 looked at earlier in the day that you've testified to?  
 11 A Yes, there was.  
 12 Q Okay. Can you tell me what those  
 13 differences were?  
 14 A There were missing entries on the  
 15 second occasion.  
 16 Q And what were the missing entries?  
 17 A Everything prior to sometime in the  
 18 afternoon on September 17th.  
 19 Q What were missing is that everything  
 20 was missing from some point in time prior to some point  
 21 in time on the afternoon of September 17th?  
 22 MR. SHANK: Objection to form.  
 23 BY MR. LUCAS:  
 24 Q Do I correctly understand? Is that  
 25 your testimony?

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1 Go ahead. Answer. 23  
 2 THE WITNESS: I don't know that I  
 3 understand the question.  
 4 BY MR. LUCAS:  
 5 Q Other than e-mails that I think you're  
 6 referring to, is there any other document you know that  
 7 would actually show the exact time of day when this  
 8 took place, this event took place, where the SSUP alert  
 9 log was looked at under the circumstances that you just  
 10 described?  
 11 A In general that type of activity would  
 12 be captured in a shell history.  
 13 Q Was it captured in a shell history that  
 14 you're familiar with?  
 15 A I -- I don't know.  
 16 Q Whose shell history would it be  
 17 captured in?  
 18 A The individual who is looking at the  
 19 file.  
 20 Q And who was that in this particular  
 21 situation?  
 22 A Mr. Rao.  
 23 Q What were the contents of SSUP alert  
 24 log when you looked at them on the second occasion on  
 25 September the 17th?

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1 A I don't understand. 25  
 2 Q Let me rephrase. I'm just trying to  
 3 understand your answer. All right? What was missing  
 4 when you looked at the alert log on the second  
 5 occasion, which you think was somewhere around 3:00 or  
 6 4:00 in the afternoon on September 17th?  
 7 A There were no entries in the alert log  
 8 that showed the data files in the usage database  
 9 pointing to the data files in the customer database on  
 10 that second occasion.  
 11 Q Were the entries missing a whole period  
 12 of time, a time frame from one period of time to  
 13 another, or are you saying there were just certain  
 14 entries that were missing?  
 15 A The only entries contained in the file  
 16 on the second review were produced after the corruption  
 17 of the database occurred.  
 18 Q So the only entries that appeared when  
 19 you looked the second time was entries for September  
 20 17th, 1999 after approximately -- they were timed after  
 21 approximately 10:30 in the morning on that day?  
 22 A That is correct.  
 23 Q Where are those entries now?  
 24 A They -- I don't know.  
 25 Q Well, they're not in Exhibit 25 that we

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 1 that Convergys is contending in this case that Mr. Rao  
 2 engaged in certain activities after the database  
 3 corruption on the morning of September 17th that  
 4 Convergys contends was in the nature of a cover-up of  
 5 his conduct; is that your understanding?

6 MR. SHANK: Object to form.

7 THE WITNESS: Yes, I believe it has  
 8 been characterized as a cover-up.

9 BY MR. LUCAS:

10 Q And just so I understand, is it your  
 11 understanding that there's anything in Exhibit Number  
 12 7, which is the September 20th shell history, that's  
 13 not in Exhibit -- that is not in the September 17th  
 14 shell history that evidences, provides evidence or  
 15 proof, of Mr. Rao's alleged cover-up activities?

16 A I have not analyzed the differences  
 17 between the September 20th and September 17th files to  
 18 make that determination.

19 Q Let me ask you or, I guess, ask first  
 20 Mr. Shank to place before you Exhibit Number 13.

21 MR. SHANK: I've got a 12 and I've got  
 22 a 14, Kevin. Sorry. 13.

23 BY MR. LUCAS:

24 Q Mr. Brown, would you take a look at  
 25 Exhibit Number 13, and, again, we can look at specific

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1 mail in front of Mr. Brown.

2 BY MR. LUCAS:

3 Q Would you take a look at one of the  
 4 documents we were looking at before -- there were two  
 5 exhibits.

6 MR. SHANK: Exhibit 19, for the record.

7 BY MR. LUCAS:

8 Q Exhibit 19, take a moment to take a  
 9 look at that.

10 A Yes.

11 Q Is this the document you were just  
 12 referring to?

13 A Yes.

14 Q Okay. And does that document help  
 15 refresh your recollection as to what Exhibit Number 13  
 16 is?

17 A Yes. Exhibit Number 13 is the shell  
 18 history as of 1:02 p.m. on September 17th for Mr. Rao.

19 Q Now, Mr. Koopmans indicated yesterday  
 20 that this was an unedited or non-edited version of Mr.  
 21 Rao's keystroke log or shell history. Do you agree  
 22 with that?

23 A I have no reason to believe this has  
 24 been edited.

25 Q When was this document first generated

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1 sections in as much detail as you'd like on questions.  
 2 But do you recognize this particular document?

3 A Yes, I do.

4 Q And can you tell me what it is, please?

5 A It's the shell history for Mr. Rao.

6 Q Is this the September 17th shell  
 7 history for Mr. Rao that you were referring to earlier?

8 A Yes. I believe that's -- that it is,  
 9 yes.

10 Q What is it about this document when you  
 11 look at it or something else that you know that  
 12 indicates to you that this is the Rao shell history, I  
 13 guess, with a file date of September 17th?

14 A Well, if I recall correctly, this was  
 15 attached to a -- to an e-mail which described that  
 16 exact fact.

17 Q Let me, again, to speed this up, Mr.  
 18 Shank, and correct me if I'm wrong, Mr. Koopmans  
 19 testified yesterday that this particular document was a  
 20 document which you e-mailed to him, I believe, with  
 21 your e-mail of 6:00 a.m. in the morning of Tuesday,  
 22 September 21.

23 MR. SHANK: Well, if you want to do  
 24 this, it's up to you, Kevin, but I think that  
 25 that fact would be confirmed if you put the e-

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1 in -- let me withdraw the question. When did you first  
 2 look at this document, that being Exhibit Number 13?

3 A In electronic form sometime between  
 4 September 17th at 10:30 a.m. and September 17th at 1:02  
 5 p.m.

6 Q I'm sorry. Give me those times again.  
 7 I apologize.

8 A Sometime between the time of the  
 9 corruption of the database and 1:02 p.m. on September  
 10 17th.

11 Q On the same day. So sometime between  
 12 10:30 and 1:00 in approximate terms, in that two-and-a-  
 13 half-hour time frame, was the first time you would have  
 14 looked at it; is that correct?

15 A Correct.

16 Q And did you make arrangements at that  
 17 time to have this particular -- to have the keystroke  
 18 log or the shell history as it existed at that time  
 19 somehow preserved by Convergys?

20 A Yes.

21 Q So this particular document, Number 13,  
 22 was not preserved by Convergys in the form it exists as  
 23 part of some sort of normal practice or procedure; is  
 24 that correct?

25 A Yes, that is correct.

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1 Q You made arrangements on September 17th  
 2 to so preserve it, correct?

3 A That is correct.

4 Q What other shell histories of Convergys  
 5 employees or contractors did you make arrangements on  
 6 September 17 to have their shell histories preserved?

7 A I made no other arrangements.

8 Q What were the circumstances or reasons  
 9 why you made arrangements on September 17th to have  
 10 this particular shell history preserved?

11 A Because of the suspected deception of  
 12 Mr. Rao -- by Mr. Rao. Excuse me.

13 Q When you first looked at this document  
 14 at sometime before 1:02 on September 17th, what did you  
 15 conclude or what was significant to you when you looked  
 16 at it?

17 A I don't know that I drew any  
 18 conclusions prior to 1:02 p.m. based on the contents of  
 19 this file.

20 Q Let me ask Mr. Shank to show you  
 21 another document that has been marked as Exhibit --  
 22 it's a one-page document. It's Exhibit Number 8. Do  
 23 you recognize this document?

24 A I do.

25 Q What is Exhibit 8?

1 privilege issue, not on an answer?

2 MR. LUCAS: That's fine.

3 (OFF THE RECORD)

4 BY MR. LUCAS:

5 Q I think I had asked you is this  
 6 document -- no, I'm sorry. I had asked beyond that. I  
 7 think I had asked you what the circumstances were that  
 8 caused you to have this document prepared or generated  
 9 or preserved in the form it appears.

10 MR. SHANK: And I'm going to object and  
 11 tell the witness not to answer that question as  
 12 stated, as the question was worded.

13 MR. LUCAS: Okay.

14 BY MR. LUCAS:

15 Q How was this document created?

16 A It was created by using the strings  
 17 command in Unix against the September 17th, 1999 at  
 18 1:02 p.m. Mr. Rao's history file and then we used the  
 19 tail command in Unix to specify that we want the last  
 20 44 lines of that file.

21 Q What does the string command do?

22 A It removes any binary characters that  
 23 would be non-printable on your screen.

24 Q And what does the tail command do?

25 A It prints the last lines of a file, by

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1 A It is the last 44 we'll say significant  
 2 lines of the history file.

3 Q Of what history file?

4 A For -- of Mr. Rao from September 17th,  
 5 1999 at 1:02 p.m.

6 Q Now, is it an excerpt then of a portion  
 7 of Exhibit 13 in the sense that it just takes all the  
 8 entries during a particular time frame or is it a  
 9 listing of certain events as they appeared or certain  
 10 entries or commands as they appear on Exhibit 13?

11 A It's the most recent 44 lines from that  
 12 file.

13 Q Did you make arrangements to preserve  
 14 Exhibit 8 in the form that it's in?

15 A No.

16 Q Who did?

17 A Let me rephrase. Exhibit 8 is a subset  
 18 of Exhibit 13, so I made arrangements to preserve  
 19 Exhibit 13. I later produced what you see in Exhibit 8  
 20 out of Exhibit 13.

21 Q And when did you do that later  
 22 production of the subset that is reflected in Exhibit  
 23 8?

24 MR. SHANK: Objection. Can I -- can I  
 25 confer with the witness for a second on a

1 default will print the last 10 lines of a file, but  
 2 here I specified to print the last 44 lines of the  
 3 file.

4 Q And why did you choose that number?

5 A Simply because it was the most recent

6 commands.

7 Q So you made that determination of how  
 8 many lines to print in your tail command by actually  
 9 looking at September 13 (sic) and making a  
 10 determination of what you viewed as being what?

11 A Honestly I don't recall why the number  
 12 44 was chosen, if that's the basis of your question.

13 Q And the time when these particular  
 14 commands that appear on Exhibit 8 were actually made  
 15 you don't know, correct?

16 A The last command would have been made  
 17 at 1:02 p.m. on September 17th, 1999. Other than that,  
 18 I can't state as to when the commands prior to the most  
 19 recent command were executed.

20 Q Let me just ask you to clarify that  
 21 last point. Are you saying that the actual command,  
 22 that the last command is the 1:02 time or is that the  
 23 time as of which the -- the history was generated? Let  
 24 me rephrase the question.

25 A Okay. Thanks.

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1 communication with Mr. Rao as to what Mr. Koopmans  
 2 asked for or how Mr. Rao characterized what he  
 3 provided; is that correct?

4 A That is correct.

5 Q This is what Mr. Koopmans gave you with  
 6 his Exhibit 18, correct?

7 A That is correct.

8 Q Okay. And did you read these  
 9 documents?

10 A I reviewed -- I -- I presume I did read  
 11 them. I mean, I reviewed them. I don't know what you  
 12 mean by read.

13 Q Well, let me ask you with respect to  
 14 the first two pages of Exhibit 14. It's a document  
 15 that has 26 numbered paragraphs and then an unnumbered  
 16 paragraph at the end. Did you read each of these  
 17 paragraphs?

18 A I -- I did.

19 Q Did you do anything to compare what was  
 20 stated in these paragraphs with other documents that  
 21 were then available to you?

22 A Are you talking about on receipt of the  
 23 e-mail at the time -- I mean, in September of 1999?

24 Q Yes.

25 A No, I did not.

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1 the third paragraph?

2 A Yes, I see that.

3 Q Did you understand that those were the  
 4 shell histories or keystroke logs for Ravi and Rick  
 5 Litton?

6 MR. SHANK: Objection to foundation.

7 BY MR. LUCAS:

8 Q Is that your understanding?

9 A That's what I would believe to be the  
 10 case, yes.

11 Q Have they been preserved by Convergys?

12 MR. SHANK: Objection. I think he's

13 already talked about this topic.

14 THE WITNESS: No.

15 BY MR. LUCAS:

16 Q Did you have any discussion after your  
 17 receipt of Exhibit Number 18 with Ravi or Neil  
 18 concerning the statements that are set forth in Exhibit  
 19 18?

20 MR. SHANK: Object to form.

21 THE WITNESS: Again, at the time prior  
 22 to preparing my e-mail?23 MR. LUCAS: Your e-mail response of  
 24 6:12 a.m. on the 21st that's been marked as  
 25 Exhibit 19.

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1 Q Did you -- so you didn't make any kind  
 2 of comparison of what's stated in the first two pages  
 3 of Exhibit 14 with other documents before you sent Mr.  
 4 Koopmans your reply e-mail that's been marked as  
 5 Exhibit 19, correct?

6 A That's correct.

7 Q And if you'll look at Exhibit 18, Mr.  
 8 Koopmans says that he had met -- that he first had  
 9 grilled Mr. Rao with a purpose to trap him and then he  
 10 had gotten together with Neil Hulin and Ravi Kura and  
 11 discussed matters with them and then all three of them  
 12 met with Mr. Rao and went over all these matters. Did  
 13 you see that?

14 A Yes.

15 MR. SHANK: Object to form.

16 BY MR. LUCAS:

17 Q And you see, for example, that there  
 18 are statements in there about Ravi verifying certain  
 19 approaches, doing certain work?

20 MR. SHANK: Object to form.

21 BY MR. LUCAS:

22 Q Do you see that?

23 A Yes, I see that.

24 Q Do you see the reference to the  
 25 histories of Ravi and Rick Litton that's referred to in

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1 THE WITNESS: No, I didn't.

2 BY MR. LUCAS:

3 Q Mr. Rao's services were terminated in  
 4 the morning of Tuesday, September 21, 1999. Did you  
 5 have any discussion with Neil or Ravi concerning any of  
 6 these matters prior to the termination of Mr. Rao's  
 7 services?

8 A I don't believe so.

9 Q Do you see the reference in the second  
 10 paragraph where Mr. Koopmans says "We went to your home  
 11 directory and deduced you had locked it away in the  
 12 history directory"? You see that reference?

13 A Yes.

14 Q What did you understand he was  
 15 referring to?

16 MR. SHANK: Objection to foundation.

17 Calls for speculation.

18 THE WITNESS: He was referring to the  
 19 preservation of the history file from September  
 20 17th at 1:02 p.m.

21 BY MR. LUCAS:

22 Q That's what you've identified earlier  
 23 as being the shell history or the keystroke log with a  
 24 file date of September 17th, correct?

25 A That's correct.

DARIN BROWN

February 19, 2004

VOLUME II  
IN THE UNITED STATES DISTRICT COURT  
SOUTHERN DISTRICT OF OHIO  
WESTERN DIVISION

CONVERGYS INFORMATION :  
MANAGEMENT GROUP, INC.,

and CHUBB CUSTOM INSURANCE :  
COMPANY,

:  
Plaintiffs,

:  
-v- : CASE NO.: CV-01-618  
: (Judge Beckwith)

IGATE CORPORATION, et al.,

:  
Defendants.

\* \* \* \* \*

The continuation of the deposition of DARIN BROWN, taken before Debra A. Sprague, Certified Court Reporter and Notary Public in and for the State of Ohio, at the offices of Ulmer and Berne, LLP, 600 Vine Street, Suite 2800, Cincinnati, Ohio, on the 19th day of February, 2004, beginning at the hour of 1:37 p.m., and ending at the hour of 3:03 p.m.

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DARIN BROWN

February 19, 2004

<p>1 of weeks prior to me joining  2 Q And Mr. Ravi Kura, was he already there as  3 an employee or a contractor when you first came to  4 Convergys as a contractor in August of 1999?  5 A Yes, he was  6 Q Okay Do you know how long he had been  7 there prior to your joining?  8 A If I recall correctly, he may have been  9 hired in June of 1999, but I don't know  10 Q You spoke in your -- in the earlier  11 session of your deposition about shell histories. And I  12 think at various times I referred to them in asking you  13 questions as keystroke logs and/or as shell histories.  14 And I take it from your prior testimony that in September  15 of 1999, you accessed, at some point in time, Mr. Rao's  16 shell history as it then existed  17 A Yes, I did.  18 Q Can you recall the first occasion on which  19 you accessed Mr. Rao's shell history?  20 A No, I can't  21 Q Can you describe for me the process or  22 procedure by which or the manner in which you accessed Mr.  23 Rao's shell history? What did you have to do to actually  24 access it?  25 A I can testify to what I likely did I</p>	Page 22	<p>1 A The -- After you've done the op Oracle  2 command to be able to administer the database, that shell  3 history file, I can access without having to request  4 permission to access it.  5 Q And when you access, at that time, when  6 you are able to access, in this case Mr. Rao's shell  7 history file, are you able to read it?  8 A Yes  9 Q Are you able to write to it or edit it?  10 A There's nothing technically that would  11 prevent that.  12 Q Now, I'm taking from your answer that  13 there perhaps is another shell history. Maybe I'm wrong.  14 But you had said the shell history as you're referring to  15 it. Is there some other shell history or keystroke log of  16 a -- that would have related to production DBAs like Mr.  17 Rao back in September of 1999, that's different than what  18 you just described?  19 A There is  20 Q Okay Can you tell me --  21 A It's not really -- It's not different in  22 content. But when you log in to the Unix server as your  23 individual ID, you have a shell history that only that  24 particular user can access.  25 Q And you're saying the content is the same</p>	Page 24
<p>1 don't --  2 Q Let's start -- That's fine. You don't  3 recall exactly what you did, okay  4 A No, I don't recall exactly what I did.  5 Q So what would have been the most likely  6 means, in your mind, that you would have followed to  7 access Mr. Rao's shell history back in September of 1999?  8 A I likely would have run the strings  9 command on the history file and viewed the results on my  10 screen.  11 Q Would you have had to call over to -- at  12 the operating system group within Convergys to get access  13 to Mr. Rao's shell history?  14 A The shell history file that I'm referring  15 to, no  16 Q Let me ask you, is there a certain way you  17 could describe the shell history file that you're  18 referring to, so I understand what you mean?  19 A I can't recall if I described this before  20 or not. But when you log into Unix, you log in as your  21 individual user ID. Presumably nobody knows your password  22 except you. Then you do what's called an op, O-P command,  23 to become the Oracle user, to be able to administer the  24 database  25 Q And then what do you do?</p>	Page 23	<p>1 as the type of shell history that you were just talking  2 about?  3 A It would still track the commands. It  4 would just be the commands run under that individual user  5 account instead of under the Oracle user account.  6 Q If you were to print it up, if you were to  7 make a hard copy of it, would it look different, these two  8 different types of shell histories?  9 A Other than the content, no.  10 Q I'm sorry, what do you mean other than the  11 content? Now, I thought the content was the same.  12 A Well, the content is the command history  13 that that individual user ran, which is likely not the  14 same as the command history that the Oracle user would  15 have run.  16 Q Okay. Cause there could -- there would --  17 Why would that be?  18 A Actually, most of the DBA team logs into  19 the server and immediately does an op Oracle. So very few  20 of the database administrators do things under their  21 individual accounts  22 Q So the shell history, as a general matter,  23 is something that with the way the production DBAs work,  24 they would all, as a general matter, have access to it  25 because they all generally logged in under the op command?</p>	Page 25

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<p>1 MR. SHANK: Objection to form.</p> <p>2 BY MR. LUCAS:</p> <p>3 Q Is that correct?</p> <p>4 A Anybody who's run the op Oracle command</p> <p>5 would then have access to any of those history files.</p> <p>6 Q When you -- These two different types of</p> <p>7 shell history, when you print them out on hard copy form,</p> <p>8 now, you've explained the content could be different,</p> <p>9 would there be a difference in terms of like the header or</p> <p>10 whatever the file name is that would appear?</p> <p>11 A Any file header that appears on a printout</p> <p>12 is a result of the tool that was used to print it out. It</p> <p>13 wouldn't be contained within the file itself.</p> <p>14 Q Okay. So let me ask Mr. Shank if he'd put</p> <p>15 before you Exhibits 7 and 13.</p> <p>16 MR. SHANK: And you've got 13, right,</p> <p>17 or somebody has 13?</p> <p>18 REPORTER: It's back in the stack.</p> <p>19 MR. SHANK: Okay.</p> <p>20 BY MR. LUCAS:</p> <p>21 Q I just want to focus on what I would call</p> <p>22 the header or the file name. Let's take first Exhibit</p> <p>23 Number 7. And I take it what you're referring to as the</p> <p>24 file name or header is the rrao_hist_09270.txt?</p> <p>25 A Yes.</p>	<p>Page 26</p> <p>1 is requesting the print has to somehow fill in or</p> <p>2 designate?</p> <p>3 MR. SHANK: Objection to the extent</p> <p>4 it was already asked and answered at his first</p> <p>5 deposition. Go ahead, Mr. Brown.</p> <p>6 THE WITNESS: That's something that</p> <p>7 automatically prints out.</p> <p>8 BY MR. LUCAS:</p> <p>9 Q Can you add to it or change from it in</p> <p>10 using the, I think you said the lp command in Unix.</p> <p>11 A This is whatever file you print, I believe</p> <p>12 is what will print in that -- in that header, whatever the</p> <p>13 name of the file is that you're printing.</p> <p>14 Q Now, turn your attention to the header or</p> <p>15 the name in Exhibit 7, which you said, I believe you</p> <p>16 thought was printed out using the Notepad editor under</p> <p>17 Microsoft Windows.</p> <p>18 Can you just describe to me how one goes</p> <p>19 about using that tool to print out? Is there an automatic</p> <p>20 content or is it something you have to designate or</p> <p>21 specify when the printout takes place?</p> <p>22 A I believe the default is to print the file</p> <p>23 name at the top of the page and the page number at the</p> <p>24 bottom of the page.</p> <p>25 Q Well, in this particular case, as an</p>
<p>1 Q Is that what you're --</p> <p>2 A Is that what you're also --</p> <p>3 Q That's what -- That was my question</p> <p>4 That's how you understood my question and your answer,</p> <p>5 correct?</p> <p>6 A Yes</p> <p>7 Q Okay And then with respect to Exhibit</p> <p>8 13, you're talking about rrao_hist.txt; is that correct?</p> <p>9 A Yes, that's correct</p> <p>10 Q Can you tell by looking and your</p> <p>11 familiarity just with the two headers or file names here,</p> <p>12 what tools, tool or tools was used in the print up of</p> <p>13 Exhibit 7 and then in the print up of Exhibit 13?</p> <p>14 A I believe Exhibit 13 was printed using the</p> <p>15 lp command in Unix. I believe Exhibit 7 was printed using</p> <p>16 the Notepad editor in -- under Microsoft Windows</p> <p>17 Q Can you tell me what it is about the</p> <p>18 header in Exhibit 13, which leads you to the conclusion</p> <p>19 that you just stated?</p> <p>20 A Just from my experience, when you use the</p> <p>21 lp command, it -- you can tell it to put these page</p> <p>22 numbers and titles at the top.</p> <p>23 Q The title itself, in this case on Exhibit</p> <p>24 13, the rrao_hist.txt, is that something that</p> <p>25 automatically prints out or is that something that whoever</p>	<p>Page 27</p> <p>1 example, there's the reference to 0920. Do you see that?</p> <p>2 A I do.</p> <p>3 Q Is that something that's automatic in the</p> <p>4 use of the Notepad editor or is that -- or do you know how</p> <p>5 that come -- how that came about?</p> <p>6 A That would also be the file name of the</p> <p>7 file that was stored on the computer where this was</p> <p>8 printed.</p> <p>9 Q So somebody would have, at some point,</p> <p>10 given that file that file name; is that correct? Or is</p> <p>11 that something that's automatically generated?</p> <p>12 A That's correct, somebody would have given</p> <p>13 that file that name.</p> <p>14 Q And do you know who the somebody was that</p> <p>15 gave this file that file name?</p> <p>16 A I believe it was me</p> <p>17 Q And when did you do that?</p> <p>18 A I don't know precisely. I believe it</p> <p>19 would have been again in responding to the request for</p> <p>20 admissions in September or October last year</p> <p>21 Q But sometime during the course of the</p> <p>22 litigation and after 2001 or 2002, not back in September</p> <p>23 of 1999, correct?</p> <p>24 A That's correct.</p> <p>25 Q What was the basis or the reason why you</p>

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<p style="text-align: right;">Page 30</p> <p>1 gave or included in the file name the 0920 reference?  2       A That's Mr. Rao's history file that  3 contains the time stamp September 20th of 1999, on the --  4 on magnetic disc on the server.  5       Q And just explain to me cause I don't  6 understand, where would that time stamp and how does that  7 time stamp appear on the server?  8       A You go to the directory where these files  9 are stored, you can do a list command and see the file  10 name and the time stamp on the file  11       Q How does that file -- The file name,  12 somebody had to put on at some point, correct?  13       A Yes  14       Q And the time stamp, how is that generated?  15       A It's generated automatically by Unix.  16       Q And what does it relate to, when that file  17 was created or what?  18       A Usually the time stamp, when you run a  19 list command, it will show you the time the -- the file  20 was last edited or modified or amended, appended to, any  21 kind of change to that file  22       Q So in your understanding, on Exhibit 7, as  23 you printed it out, what would that 0920 designation  24 relate to? Would that indicate that the Rao history file  25 was somehow, I think you said edited or modified on</p>	<p style="text-align: right;">Page 32</p> <p>1       Q Let me just ask you, if someone were to  2 access the file, read it, and then somehow preserve a copy  3 of it, simply just preserve a copy of it, would that then  4 result in a new date?  5       A It would not.  6       Q Would there be some record that would  7 reflect when the history file was accessed for a read only  8 purpose?  9       A Not that I know of.  10       Q And then I guess I still don't understand,  11 and I'm hopeful you can give me a little bit more detail  12 What actually is required? What's the standard that's  13 required after you access and read to have the date  14 change?  15       A You would have to save the file or the  16 file would have to be written to through some other means  17       Q Okay. Well, let me take those one at a  18 time. If you save the file, I mean, does that mean you  19 would -- you could access it, read it, not change the  20 contents at all, but save the file, and that would result  21 in an updated dating on the magnetic disc?  22       A Yes, that's my understanding  23       Q And then when you said, if you write to  24 the file in the context that you're using, what would that  25 require or involve so as to result in a re-dating or an</p>
<p style="text-align: right;">Page 31</p> <p>1 September the 20th?  2       MR. SHANK: Objection to form.  3       THE WITNESS: That would have been  4 the file -- the date that that file was last  5 modified, yes.  6 BY MR. LUCAS:  7       Q Now, what do you mean, if you know -- I'm  8 not asking you to testify to something you don't know.  9 But if you do know, what is necessary to have that date  10 changed in terms of modified or edited? For example, if  11 somebody accesses that file on a particular date, does it  12 become re-dated or does it require some particular actual  13 change to the contents?  14       MR. SHANK: You're talking about the  15 date that's in the file name?  16 BY MR. LUCAS:  17       Q On the magnetic file. Well, as I  18 understand, this whole thing all goes back to what's on  19 the magnetic file; is that correct?  20       A What's on the file on magnetic disc,  21 correct  22       Q So what type of activity would cause a  23 change in that time, time stamp?  24       A Any activity where the file was re-written  25 to disc, any kind of writes to that file.</p>	<p style="text-align: right;">Page 33</p> <p>1 updating?  2       A That would be the user logging in and  3 typing commands which Unix automatically appends to the  4 end of the file  5       Q So it'd be any, for example, any  6 additional commands that were entered for something, all  7 of those, anything like that would result in an update; is  8 that correct?  9       A Right.  10       Q Now, when you were testifying earlier  11 concerning the manner in which a history file, a  12 production DBA history file could be accessed, you  13 mentioned that through the, I think you said it was the op  14 command, and you described that, is it also possible that  15 someone could access a history file through an individual  16 user name that was not the individual doing the accessing.  17 so long as that individual knew the password?  18       MR. SHANK: Objection to form.  19       THE WITNESS: I don't think I  20 followed you. I'm sorry.  21 BY MR. LUCAS:  22       Q Well, let me give you an example. I mean,  23 Darin Brown, production DBA, if I knew your password and I  24 had access to the Convergys system, could I enter -- could  25 I gain access to the Darin Brown shell history in your</p>

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<p style="text-align: right;">Page 34</p> <p>1 name, so long as I knew your password?    2 A Yes, you could.    3 Q And I could read it, write to it, or edit    4 it in that manner as well; is that correct?    5 A Yes    6 Q I take it in either of those manners,    7 whether I went through the op command or if I were to go    8 in, as I said, under an individual's name with their    9 password, I could also forward or transfer the history    10 file as well?    11 MR. SHANK: Objection to form.    12 THE WITNESS: If you go in under an    13 individual user account?    14 BY MR. LUCAS:    15 Q With their password.    16 A With their password, you can -- I don't    17 know what you mean by forward or transfer.    18 Q Well, I mean, I can make a copy or I    19 could, I think there was a reference earlier to an FTP    20 kind of protocol, I could forward some sort of a copy to    21 another location; is that correct?    22 A If you -- As long as you can read the    23 file, you can -- you can copy it or FTP it.    24 Q And the same thing would be true, would it    25 not, if I went through as an Oracle user through the op --</p>	<p style="text-align: right;">Page 36</p> <p>1 Q And is that a utility in Oracle or in    2 Unix, or otherwise?    3 A It's really a generic utility. It's    4 available in Unix, Windows, most operating systems.    5 Q How about an entry four, F-O-U-R, and then    6 either dot or underscore, ssup sql, would that designation    7 have any significance to you?    8 A Other than sounding similar to stuff that    9 we've -- to documents we've talked about in this case, it    10 doesn't mean anything to me    11 Q And the same if I just change the four to    12 five, the same rest, it would have no particular    13 significance to you, other than what you said?    14 A Right, no significance.    15 Q Do you know what Oracle error message 376    16 is or was back in 1999?    17 A I don't know off the top of my head.    18 Q The designation xx x -- s -- xx sql?    19 A It's not meaningful to me. You know,    20 actually, if we go back, I think three seven -- Oracle    21 error 376, just sitting here thinking about it, is a    22 corrupted file error message. But I would have to confirm    23 that with -- by using an Oracle documentation or Oracle    24 utility.    25 Q Mr. Brown, I'm not sure, so I'm going to</p>
<p style="text-align: right;">Page 35</p> <p>1 as the Oracle user through the op command, correct?    2 A Yes.    3 Q I want to ask you with respect to certain    4 designations whether you know what they mean or whether    5 they have some significance to you. The designation,    6 either as a file name or otherwise of Neil, N-E-I-L, 1; do    7 you know what that means?    8 A Doesn't mean anything to me    9 Q Neil2?    10 A Doesn't mean anything to me    11 Q Ping, P-I-N-G?    12 A Ping is a utility in Unix.    13 Q Can you tell me what it does?    14 A It's used to test network connectivity    15 with other servers    16 Q How about 1 MIK, does that mean anything    17 to you?    18 A No    19 Q I just asked you a minute ago about FTP.    20 Does that -- What does that mean to you?    21 A That's file transfer protocol.    22 Q Can you describe what that refers to in    23 terms of function?    24 A It's a utility that allows you to transfer    25 files between servers, for example</p>	<p style="text-align: right;">Page 37</p> <p>1 let Mr. Shank interrupt me or guide me here, if I'm going    2 into an area in terms of the scope of your designation.    3 So let me just kind of go a little bit here. We talked a    4 little bit about this in your first session, and I'm    5 really not quite sure how far you're being presented.    6 With respect to outages in 1999 that    7 impacted or affected the Sprint P2K, are you familiar,    8 either through firsthand knowledge or otherwise, as to    9 those outages?    10 A I'm familiar with I think the two that    11 we've talked about. Those are the only two that I can    12 recall.    13 Q Let me just say, the two that we're    14 talking about, we're talking about the events relating to    15 the September 17th, 1999 events, and then I believe you    16 also, if my recollection is correct, talked about events    17 in October of 1999, having to do with, I believe you    18 called it Oracle patch or something similar. Are we    19 talking about the --    20 A Yes.    21 Q -- same things?    22 A Those are the same items, yes    23 Q It's hard for me to remember what you said    24 versus what Mr. Koopmans said. I know somebody said it    25 Are you familiar -- You're not familiar</p>

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